

**FUJITEC**

Smart Elevators for

# SMART CITIES



**FUJITEC**

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**REXIA S**

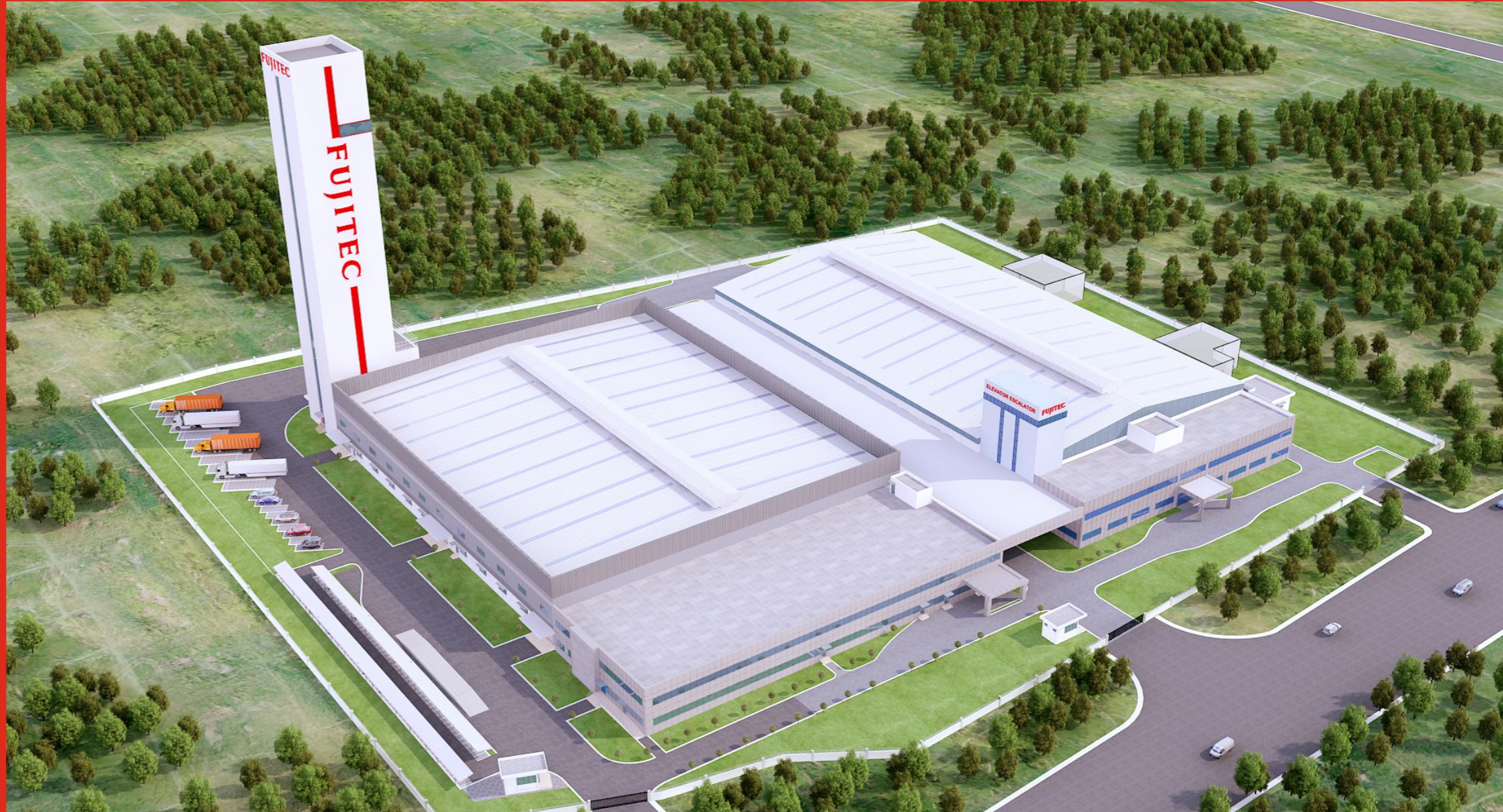
PASSENGER ELEVATOR WITHOUT  
MACHINE ROOM

# ELEVATING YOU TO THE NEXT LEVEL

**REXIA S**  
PASSENGER ELEVATOR WITHOUT  
MACHINE ROOM

**F**ounded in Osaka, Japan in 1948, Fujitec Co.Ltd has its world headquarters in Japan and also operational headquarters located in the Americas, Japan, South Asia, East Asia & Europe. Fujitec supplies a full line of products through an integrated structure covering all aspects, from R&D to maintenance and modernization.

To keep pace with the growing demand, Fujitec set up a state of the art manufacturing facility at Mahindra World City, Chennai. The Indian factory is built in line with Fujitec's global production facilities to provide the same equipment standards that are being provided internationally. Fujitec's escalators, elevators, and autowalks incorporate state-of-the-art technologies that are designed, engineered, and maintained at its global facilities, including India. Inheriting the Japanese values of safety, innovation, and quality, Fujitec is helping create beautiful and functional cities around the world.



DYNAMIC | INTELLIGENT | HUMANE

## Dynamic

### Permanent Magnetic Synchronous Gearless Traction Machine

Fujitec's REXIA S elevators are Powered by the gearless traction machines with a permanent magnetic synchronous motor that assures high riding comfort quality and low power consumption.

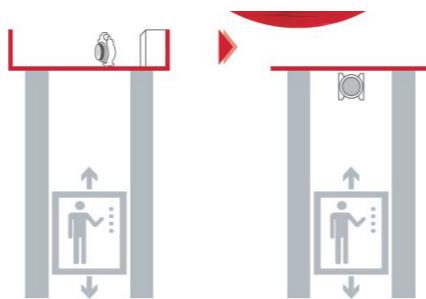
### Door Operator with Permanent Magnetic Synchronous Motor

PM door operator with highly developed transmission mechanism which uses a PM motor as the driving device. Compared with conventional motor driving door operators, around 35% reduction in energy usage is achieved.

With multiple security settings, the adoption of a terminal holding device provides more stable, smooth opening and closing actions, ensuring safe elevator operation.

### Space Saver

No Machine room is required for the Rexia S, which saves space and reduces cost of constructing one and providing better building elevation.



## Intelligent

### Distributed Control System

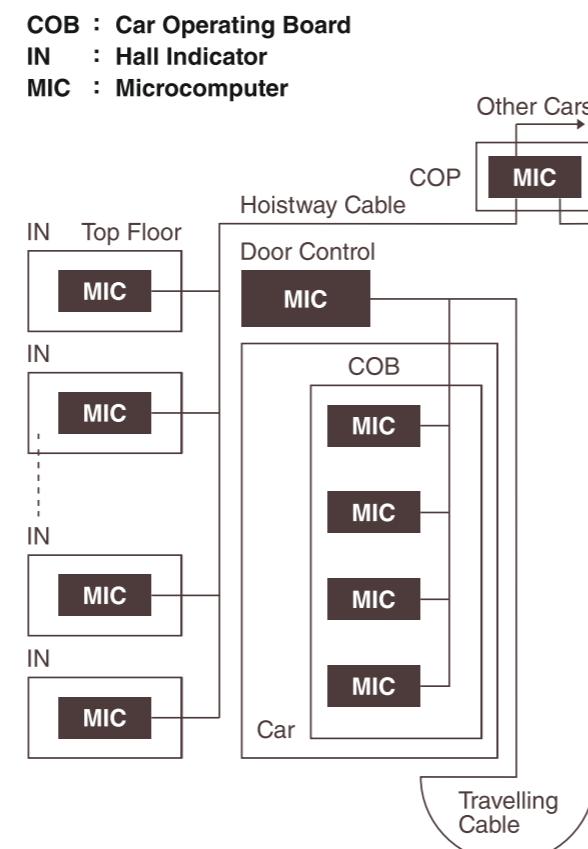
Serial communication is adopted between the control panel (32-bit), hall-call buttons and floor indicators.

Depending on content and quantity of data, multiple protocol is respectively used, which achieves high-speed and large-scale data communications as 10 times the rate when compared to conventional systems. As a result, the capability of monitoring elevator running status and instructions, with respect to communication speed, precision, reliability, has been greatly enhanced.

The "BUS LINE mode", advanced in the industry, is employed for communication, with strong anti-interference capabilities and multiple system expansion options.

Instructions for conventional elevators are transmitted from the control panel in the machine room to respective devices through the traveling cable.

Fujitec's "distributed control system" will exert the advantage of its security much better, the respective functions will be implemented strictly through the correct command received, so the elevator will obtain the absolute security.



## Humane

### IONFUL - Plasmacluster Ion Generating device

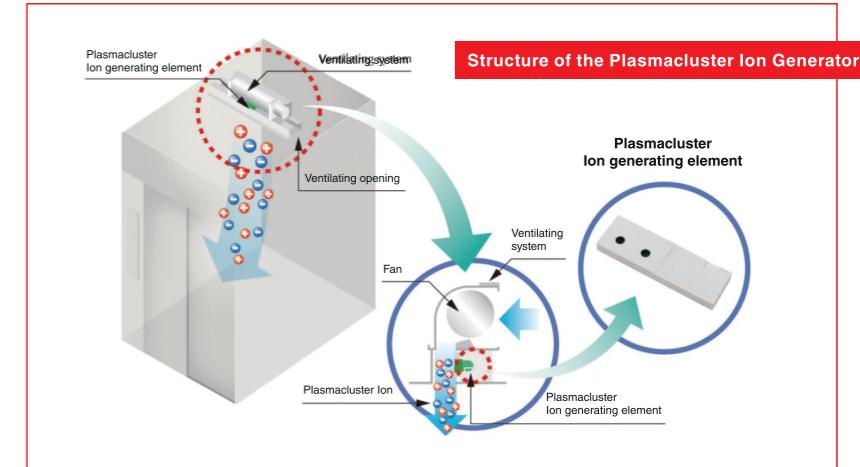
- For the creation of clean and hygienic elevators

Fujitec is the first elevator company to have installed a Plasmacluster Ion Generating device in an elevator. This device built in a car's ventilation unit disinfects airborne mold, bacteria, viruses, allergens and odor molecules as well as creating clean air in the elevator which enhances passenger comfort.

Plasmacluster Technology Demonstrates Effectiveness in Reducing Airborne Novel Coronavirus (SARS-CoV-2)



"The Plasmacluster Ion Technology" has been utilized.  
"The Plasmacluster Ion" is a trademark of Sharp Co, Ltd.



### Multi-Beam Sensor

"Multi Beam Door Sensor" to prevent passenger or objects from being hit by the closing door.

The Sensor radiates infrared beams covering the entire door way and draws an invisible beam curtain. When any of the beam is blocked, the closing door will stop and re-open.

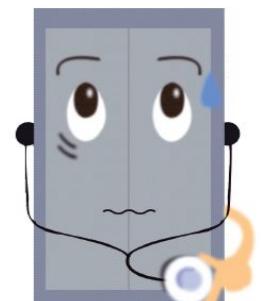
The multi-beam sensor enhances the detection of a person or an object when the doors are closing.



### Night- Time Self- Checking Operation

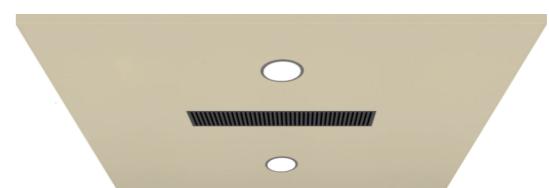
- A safety enhancement for increased reliability

Mechanical brake conditions are automatically checked by moving the elevator during the night time while not receiving any Car and Hall calls. This night-time self-checking operation enhances passenger safety and provides best reliability of use inline with Fujitec quality standards.



### LED Lighting for Ceiling

Energy Saving white light which provides the right ambience for the users.

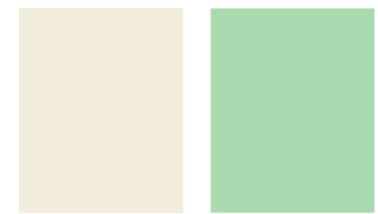


## Standard Design

### Classic



### Cabin Finishes



Painted

### Metallica



### Flooring



## Fixture Design

### Landing Fixture



Model No. IN-INM01

- Single Indicator
- Stainless Steel
- Surface Mounted -16mm

Model No. IN-INM02

- Dual Indicator
- Stainless Steel
- Surface Mounted -16mm

### Button



Model No.	B07
Type	Micro Push Button
Button Head	Stainless Steel
Illumination	Outer Ring
Lighting Colour	Orange
Braille	Standard
Shape	Round

### Handrail



Model : CPH-GC01  
Stainless Steel  
Round Type

### Car Fixture



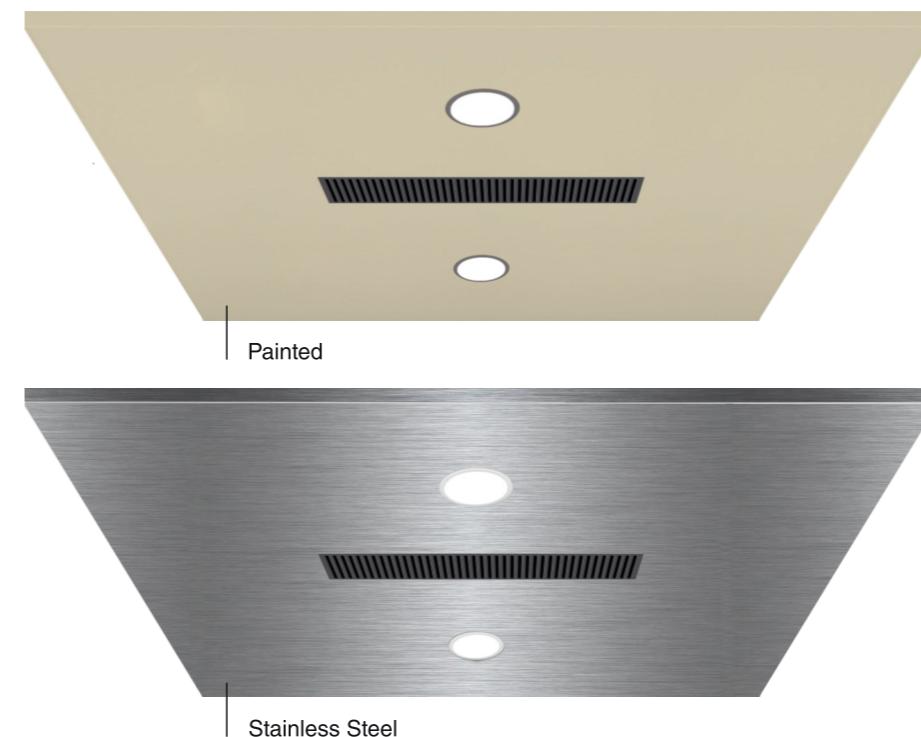
Model No. COB-S01

- Stainless Steel
- Surface Mounted
- Dot Matrix Indicator
- Attendant - Without

Model No. COB-INM01

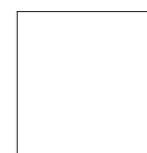
- Stainless Steel
- Surface Mounted
- Dot Matrix Indicator
- Attendant - With

### Car Ceiling Design



Model No. CT-S01

### Ceiling Finishes



White



Ivory



Light Gray



SS Finished

\* Actual product color may slightly vary from the images shown

## Entrance Design

### Simplex (1 Car)



Narrow Jamb	ETT-18CC
Jamb	Painted Steel Sheet
Door	Painted Steel Sheet
Sill	Extruded Hard Aluminium

### Duplex (2 Car)



Narrow Jamb	ETT-18CC
Jamb	Stainless Steel
Door	Stainless Steel
Sill	Extruded Hard Aluminium

## Main Specifications

Items	Standard	Optional
Use	Passenger	
Driving Type	VVVF Drive	
Speed	1(m/s)	
Capacity	6P (408 kg), 8P (544 kg)	
Travel	Upto 45 m	
Stops	2~16	
Group Operation	1 Car, 2 Car	
Door	1) Door Type 2) Door Control	2CO, 2SL VVVF Drive

## Car Size Table

Capacity kg	No. of Passengers	Cabin Size (w x d) mm	Door Type	Opening Width (mm)	Minimum Hoistway Size (w x d) mm**	Remarks	Rezia S	Top Ceiling height mm	Opening Size Height mm	Speed (m ppm)	Over head*** mm	Pit Depth mm
408	6P	950 x 1150 #	2CO	700 *	1550 X 1430			2100	2000	60	4000	1500
		950 x 1150 #	2CO	700	1600 X 1430							
		950 x 1150 #	2SL	700	1480 X 1500							
544	8P	1100 x 1300	2CO	800 *	1740 X 1580			2200	2100	60	4100	1500
		1100 x 1300	2CO	800	1775 X 1580							
		1050 x 1300 #	2SL	800	1580 X 1650							

1) \* --> With Door Offset.

2) \*\*\* --> Local Code Requirement to consider

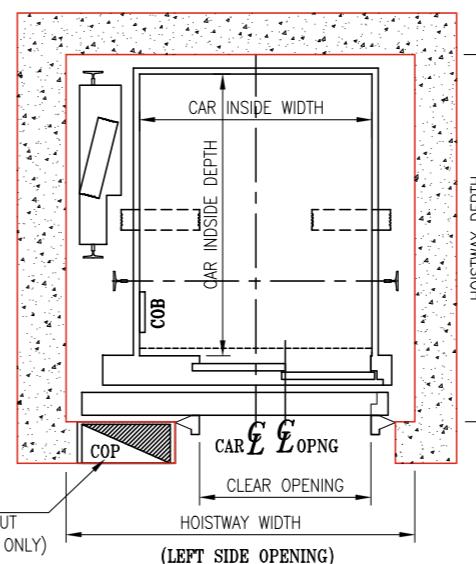
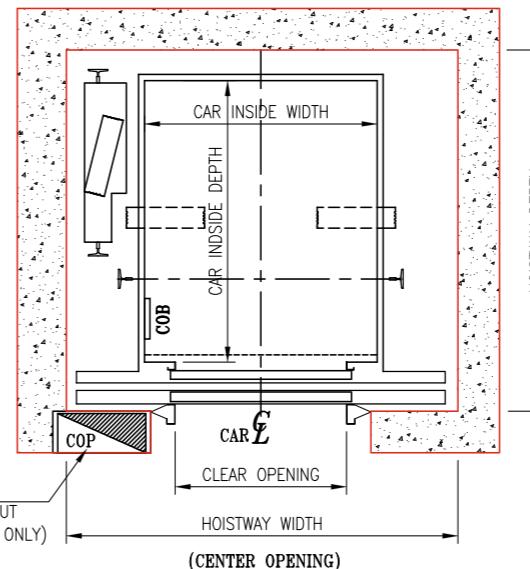
3) # --> Car size & capacity not suitable for fireman lift

## Operation & Functional Specifications

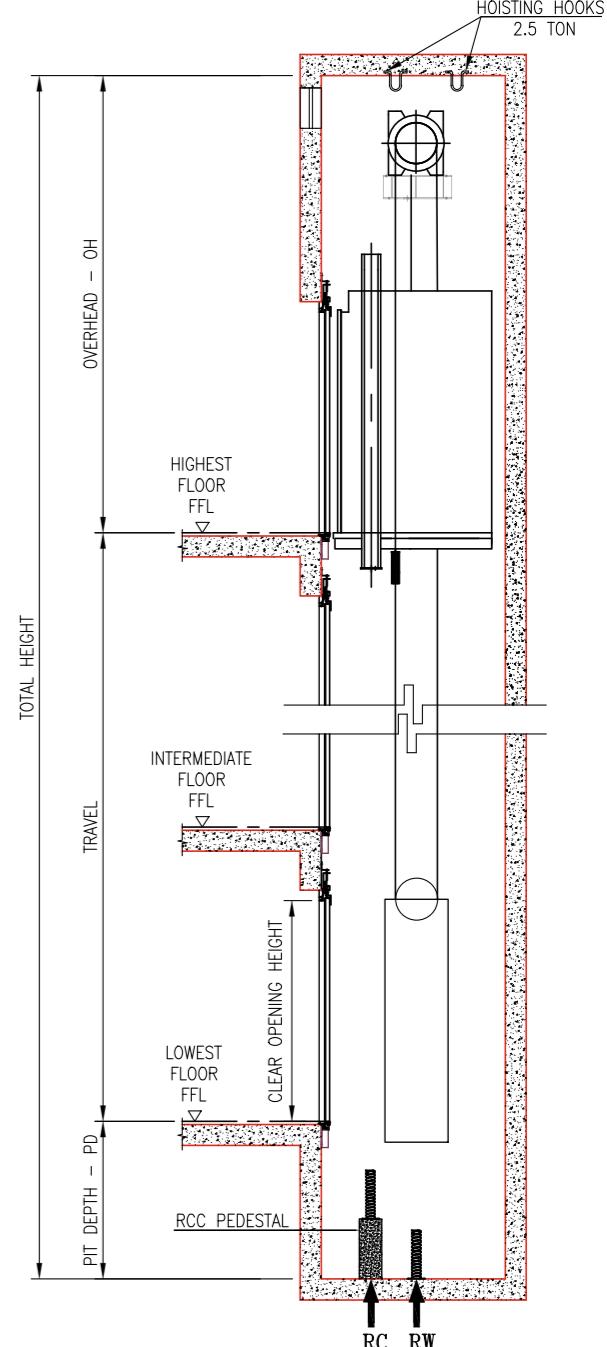
Items	Standard	Optional
Safety Functions	LANDIC (Battery Power Auto. landing Op.)	✓
	Emergency Power Operation (Generator Backup)	-
	Fire Alarm Operation	-
	Fireman Operation	-
	Emergency Alarm Device	✓
	Emergency backup Power Supply (0.5hrs)	✓
	Over-load Protection	✓
	Door Nudging	-
	Rescue Operation to Nearest Floor	✓
	Re-leveling Operation	✓
	Door Opening Failure Rescue Operation	✓
	Open Door Warning	-
	Intercom	Car- Controller
	Multi Beam Door Protection (Without mechanical safety edge)	✓
Service Functions	Automatic Fan and Light Control	✓
	Reverse Direction Car-Call Cancellation	-
	Anti - Nuisance Function	-
	Mistaken Car -Call Cancellation	✓
	Auto Adjustment of Door Opening Time	✓
	Timer Controlled Parking Operation	-
	Automatic Return to Main Floor	✓ 2 Car
	CCTV Interface	-
	Self Check Operation at Night	✓
	Auto Bypass	-
	Vonic (Voice Synthesizer)	-
Security Functions	Restricted Floor Access Operation (By Coded Floor Call Button)	-

## Layout

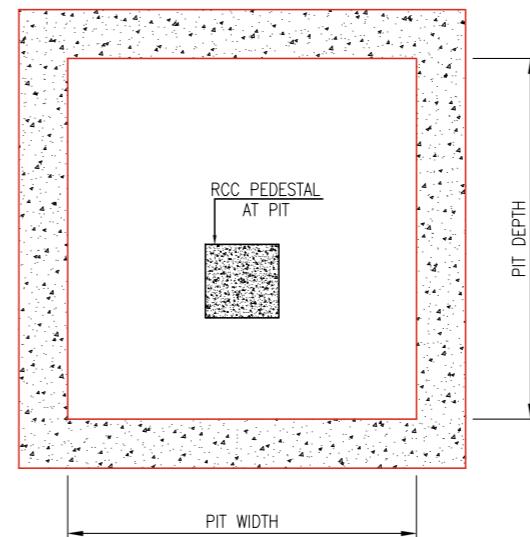
### Hoistway Plan



### Hoistway Elevation



### Pit Plan



Capacity (KG)	Pit Reaction (KG)	
	Car (RC)	CWT (RW)
408	4500	3500
544	5500	4000

### Notes

- Dimension tolerance of hoistway shall be +25mm/-0mm after plastering
- The hoistway internal dimensions are shown after plastering and pit waterproofing finish
- The Pit depth specified is the minimum requirement. Larger than required, pit will need to be filled up by Customer.
- If the hoistway dimensions are larger than the indicated maximum hoistway size, intermediate separate beams to reduce Hoistway size will need to be provided by Customer.
- Total Travel tolerance should be  $\pm 100$ mm
- The temperature of the Elevator Hoistway should be maintained below 40°C
- The provision of the main power and power for illumination in hoistway by laying of the feeder wiring from the electrical switch box in electrical room to the hoistway is to be done by client.
- Voltage fluctuations to be maintained within range of  $\pm 10\%$